MULTIMEDIA UNIVERSITY

STUDENT IDENTIFICATION NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2017/2018

BWP2024 – INTERNET AND WORLD WIDE WEB PROGRAMMING

(All sections / Groups)

12 MARCH 2018
9:00 a.m – 11.00 a.m
(2 Hours)

INSTRUCTIONS TO STUDENT

1. This Question paper consists of 4 pages with 2 Sections only.

2. **ANSWER ALL** questions in **Section A and Section B**. The distribution of the marks for each question is given.

3. Please write all your answers in the Answer Booklet provided.

SECTION A: STRUCTURED QUESTIONS (60 MARKS)

Instruction: Attempt ALL questions

QUESTION 1

a) The greatest security threat to e-Businesses is not from the outside but from the inside. Explain what internal security risk is and describe **FOUR (4)** prevention methods to this risk.

(14 marks)

b) Widget and gadget are terms that have become very popular these days. Compare and contrast between a web widget and a gadget.

(6 marks)

(TOTAL: 20 MARKS)

QUESTION 2

a) Discuss the characteristics of multitier application architecture.

(12 marks)

b) A relational database stores data in tables. Describe how data can be retrieved and combined from multiple table using primary key and foreign key.

(8 marks)

(TOTAL: 20 MARKS)

QUESTION 3

a) Explain the differences among *inline styles, embedded style sheet* and *external style sheet.*

(12 marks)

b) Given a table named "Title" as shown below. What would be the possible output if the following SQL statement is executed?

```
SELECT Title, EditionNumber, Copyright
FROM Titles
WHERE Title LIKE 'C%'
```

(8 marks)

Continued...

ISBN	Title	EditionNumber	Copyright
0132152134	Visual Basic 2010 How to Program	5	2011
0132151421	Visual C# 2010 How to Program	4	2011
0132575663	Java How to Program	9	2012
0132662361	C++ How to Program	8	2012
0132404168	C How to Program	6	2010
013705842X	iPhone for Programmers: An App-Driven Approach	1	2010
0132121360	Android for Programmers: An App-Driven Approach	1	2012

Sample data from the "Titles" table of books.

(TOTAL: 20 MARKS)

SECTION B: PRACTICAL QUESTIONS (40 MARKS)

*Instruction: Answer **ALL** questions.*

QUESTION 4

Write a Javascript program based on the following conditions:

a) Your program should declare and fill an array called *number* with sample numbers shown in the table below. The codes should prompt the user to key in the numbers to be stored in the array.

number[0]	number[1]	number[2]	number[3]	number[4]
5	8	10	3	1

(10 marks)

b) Your program should display the array elements.

(10 marks)

The output is shown in figure below.

Continued...

A Program to Obtain Input from User and Output Array Elements

The first element is 5
The second element is 8
The third element is 10
The fourth element is 3
The fifth element is 1

Output screenshot

(TOTAL: 20 MARKS)

QUESTION 5

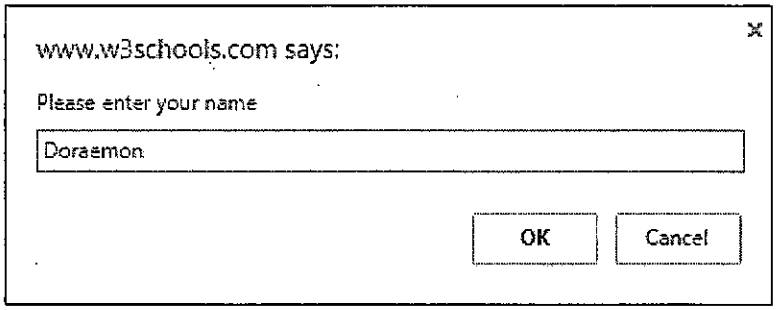
A new `Date` object contains information about current local time, and the `getHours` method of `Date` object will return an integer equal to the current hour (in a 24-hour clock format).
Using Javascript, write a program to greet user based on the following conditions:

- Prompt user to input his/her name.
- If time is less than 10:00, create a "Good morning" greeting,
- If not, but time is less than 20:00, create a "Good day" greeting,
- Otherwise a "Good evening".

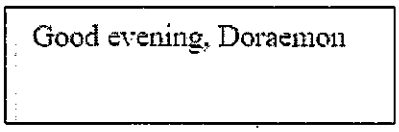
Skeleton of the program and output are given as below:

```
<!DOCTYPE html>
<html>
<head>

<script>

function greet (times){

    //complete the code here…
}

</script>

</head>
<body>

<script>

   //complete the code for getting user input and displaying
output here…

</script>

</body>
</html>
```

Continued…



Input prompt



Output

(TOTAL: 20 MARKS)

End of Paper